

PSB-2005-052	Date: 15 September 2005
Title	L28 & 3400 HST; PTO "Ratcheting Noise"
Group Code	PT06
Product Line	L-series
Model Number (s)	L2800HST, L3400HST

Service Information

Subject:

On HST MODELS, a "Ratcheting" noise may be heard during rear PTO disengagement.

This noise results from the overrunning action of the PTO clutch cams.

The clutch cams absorb inertia during the shutdown mode of implements, such as a rear rotary cutter.

SOLUTION:

A **Transmission Oil Level Kit** has been developed to "quiet" this noise.

This kit, allows additional hydraulic oil to be added to the transmission reservoir.

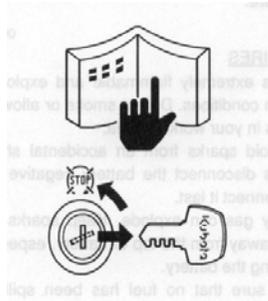
By adding oil, the PTO clutch cams will then be submerged below the oil which will "quiet" the noise.

- The purpose of this bulletin is to address any customers with this complaint.
- To correct this concern; please order Transmission Oil Level Kit, Part Number **TC220-99680**.

Parts Information

Ref. No.	Part No.	Part Name	Qty.	Remarks
	TC220-99680	Kit, Oil Gauge	1	Consists of Ref. No. (1) to (12)
(1)	TC220-56510	Guide, Oil Gauge	1	
(2)	TC220-56520	Bolt, Joint	1	
(3)	04817-05310	O-ring	2	
(4)	63763-11462	Gauge, Oil	1	
(5)	32530-31180	Ring, Rubber	1	
(6)	06312-10010	Plug	1	
(7)	15224-33113	Extension, Oil Port	1	
(8)	04816-50300	O-ring	2	
(9)	38180-21412	Plug, Oil Port	1	
(10)	38180-37142	Breather	1	
(11)	TC220-56530	Cover, Center HST	1	
(12)	TC220-99690	Manual, Instruction	1	

Installation Instructions

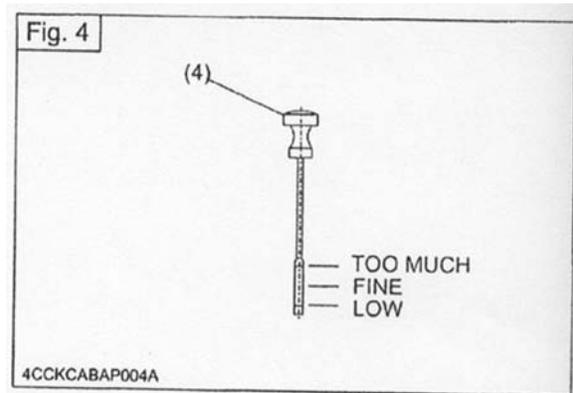
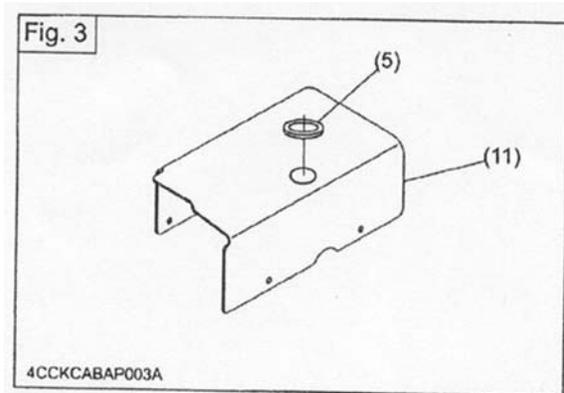
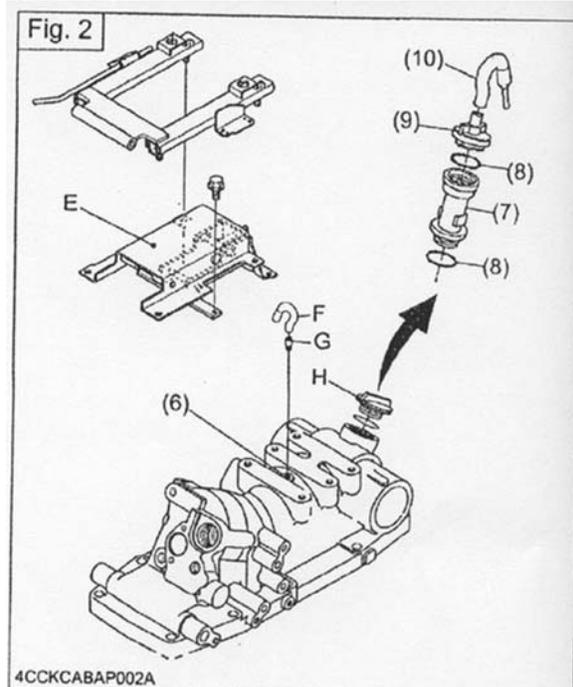
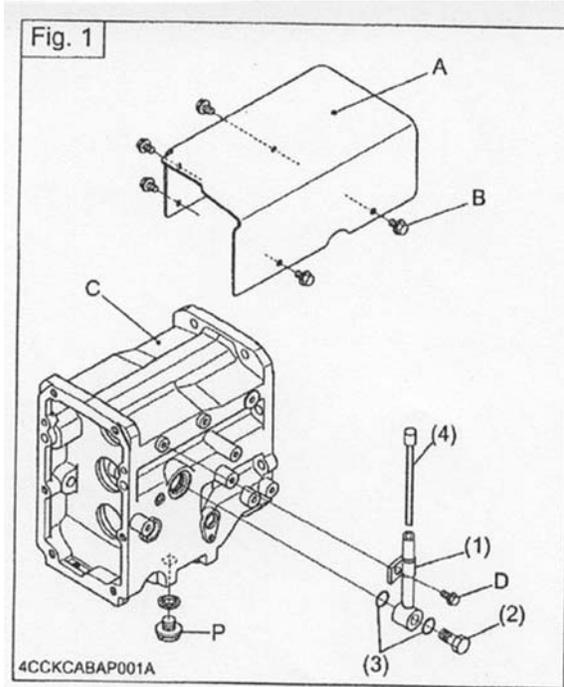


Before Servicing and Repairing

- Park the machine on firm and level ground and set parking brake.
- Lower the implement to the ground.
- Stop the engine and remove the key.
- Disconnect the battery negative cable.
- Hang a **"DO NOT OPERATE"** tag in the operator station.

1. Remove the five bolts(B) holding the center cover(A) and remove the center cover. (fig.1)
2. Remove the drain plug(P) under the mid case(C), and drain about 3.2 quarts of transmission oil. *This will lower the oil level below the sight glass.* (fig.1)
3. Remove the oil level sight glass along with the bolt(D). (fig.1)
4. Assemble the dipstick guide(1), two o-rings* *apply grease to o-rings**(3) and the joint bolt(2) as a sub-assembly. Then install the sub-assembly into the sight glass hole of the mid-case(C). Tighten bolt(D) and torque joint bolt(2) to 36.0 – 43.0 ft-lbs.
5. Remove the operator's seat & suspension(E), breather(F), pipe(G); then install the plug(6). Then re-install the seat suspension and seat. (fig.2)
6. Assemble the oil fill port extension(7), o-rings(8), oil port plug(9), and the breather(10) as a sub-assembly. Then install the sub-assembly in place of the original oil plug(H).(fig.2)
7. Insert the rubber ring(5) into the new center cover, * *has 25mm hole**(11). Install the new center cover to the mid-case(C). Tighten all five bolts(B). (fig.3)
8. Install the dipstick(4) into the dipstick guide(1).
9. Refill the transmission with the oil that was drained in step 2. Then add an additional 7.4 qts.(7.0 L)
10. Check the oil level on the dipstick. Adjust oil level as necessary. (Fig.4)

Installation Drawings



Warranty Information

Normal Warranty:
Allowable Man-hours; 1.1 hours